

Title (en)
OPTIMIZED GAS DELIVERY SYSTEM

Title (de)
OPTIMISIERTES GASZUFUHRSYSTEM

Title (fr)
SYSTÈME D'ALIMENTATION EN GAZ OPTIMISÉ

Publication
EP 4293274 A1 20231220 (EN)

Application
EP 22179612 A 20220617

Priority
EP 22179612 A 20220617

Abstract (en)
There is provided a gas delivery system (100), a valve system and a method for optimization of residual gas usage in a gas delivery system. The gas delivery system (100) comprising; a first (5) and a second (6) gas container for supplying gas; an at least three-way valve (11) in fluid communication with the first and second gas containers (5, 6), the valve (11) being operable to change position between a first valve position, wherein gas is supplied from the first container (5) and a second valve position, wherein gas is supplied from the second container (6), a sensor device (31) adapted to measure a first sensed property of the first gas container, a control unit (32) configured to receive the first sensed property from the sensor device (31), and being adapted to change the position of said valve (11) from the first valve position to the second valve position based on said first sensed property; wherein control unit (32) is adapted to maintain the valve (11) in the second valve position for a re-vaporization period of time, said re-vaporization period being predefined and/or based on a second sensed property from the sensor device (31), wherein the control unit (32) is further adapted to change the position of the valve (11) back to the first valve position after the re-vaporization period.

IPC 8 full level
F17C 13/04 (2006.01)

CPC (source: EP)
F17C 13/045 (2013.01); **F17C 2201/0109** (2013.01); **F17C 2201/032** (2013.01); **F17C 2201/058** (2013.01); **F17C 2205/0326** (2013.01); **F17C 2205/0338** (2013.01); **F17C 2221/035** (2013.01); **F17C 2223/0153** (2013.01); **F17C 2223/033** (2013.01); **F17C 2227/0311** (2013.01); **F17C 2227/042** (2013.01); **F17C 2227/046** (2013.01); **F17C 2250/032** (2013.01); **F17C 2250/034** (2013.01); **F17C 2250/0421** (2013.01); **F17C 2250/043** (2013.01); **F17C 2250/0439** (2013.01); **F17C 2250/0443** (2013.01); **F17C 2250/0473** (2013.01); **F17C 2260/026** (2013.01); **F17C 2270/0709** (2013.01)

Citation (search report)
• [X] US 2017102094 A1 20170413 - GABRYS MAREK [PL]
• [A] FR 1177444 A 19590424 - GAZ DE PETROLE
• [A] US 2020263834 A1 20200820 - AMMOURI FOUAD [FR], et al
• [A] FR 3008766 A1 20150123 - AIR LIQUIDE FRANCE IND [FR]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4293274 A1 20231220; WO 2023242414 A1 20231221

DOCDB simple family (application)
EP 22179612 A 20220617; EP 2023066287 W 20230616